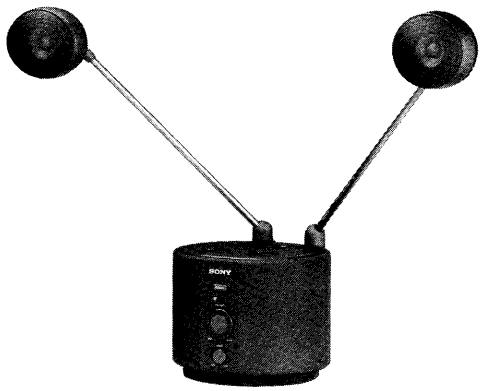
SRS-N100

SERVICE MANUAL

US Model
AEP Model
E Model
UK Model



SPECIFICATIONS

Amplifier section

Power output	30 W (at 10% harmonic distortion) Full-range: 6 W x 2 Woofer: 18 W x 1
Input	RCA pin jack (L/R x 1) PHONES/REMOTE jack (1)
Input impedance	47 kilohms
DC output	DC 4.5 V, 500 mA

Speaker section

System	Full-range + woofer
Speaker unit	Full-range: ø 65 mm Woofer (magnetically shielded): ø 90 mm
Nominal impedance	4 ohms

General

Where purchased	Power requirement	Power consumption
US, E-120V	120 V AC, 60Hz	30 W
AEP, E-230V	220 – 230 V AC, 50 Hz	35 W
UK	230 V AC, 50 Hz	35 W

Dimensions	Approx. 700 x 500 x 350 mm (w/h/d) ($27^5/_8$ x $19^3/_4$ x $13^7/_8$ in.) incl. projecting parts and controls
Mass	Approx. 5 kg (11 lb.)

Remote commander

Remote control system	Infrared pulse control
Power requirements	3 V DC
Dimensions	Approx. 44 x 20 x 185 mm (w/h/d) ($1^3/_4$ x $^{13}/_{16}$ x $7^3/_8$ in.) incl. projecting parts and controls
Mass	Approx. 100 g (4 oz.) incl. batteries
Supplied accessories	Remote commander RM-N100 (1) Connecting cord (PHONES/REMOTE plug ⟷ PHONES/REMOTE plug) (1) Connecting cord (RCA pin plug ⟷ stereo mini plug) (1) DC output cord (1) Arm fixing screws (2) Insulators (4)

Design and specifications are subject to change without notice.

NOTE:

- **E-120V**
  Countries where used 120 volts except USA.
- **E-230V**
  Countries where used 230 volts except EUROPE.

STEREO ACTIVE SPEAKER SYSTEM

SONY®

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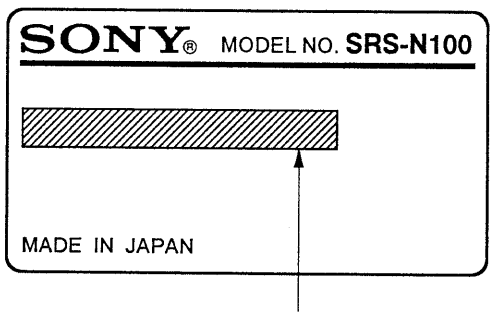
MODEL IDENTIFICATION

– Specification Label Printed on Back Panel –



US, E-120V model: AC 120 V 60 Hz 30 W
AEP, E-230V model: AC 220 – 230 V ~50 Hz 35 W
UK Model: AC 230 V 50 Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

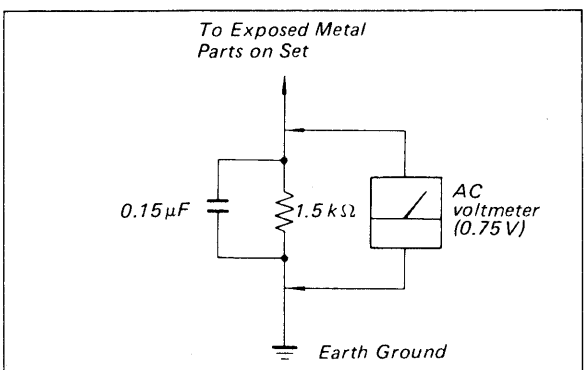
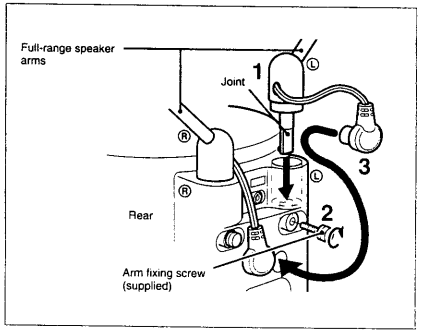


Fig. A. Using an AC voltmeter to check AC leakage.

Connections

Attaching the Full-range Speakers

Mount the full-range speakers to the woofer module.



1 Attach the joint of the full-range speaker arms to the woofer module by matching the joint and the rectangle holes on the woofer module. Be sure to connect them firmly.

2 Tighten the arm fixing screws.

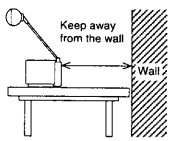
3 Connect the plugs of the speaker cords to the speaker terminals on the woofer module.

Note

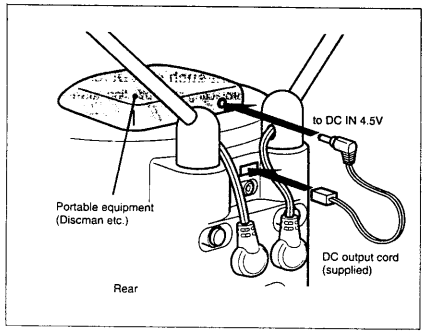
Mount both the right and left of the full-range speakers correctly to the woofer module.

Positioning

- Place the system on a solid location such as on a desk or an audio rack.
- Do not rotate the full-range speaker arms forcibly. (The arms can be rotated almost 50 degrees.)
- To obtain the maximum performance of the system, keep the system away from the wall behind it. Especially when you use the system on top of a desk etc., place it close to the edge of the desk as illustrated.



Power Source of the Connected Equipment



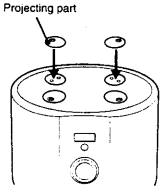
When you use portable equipment (power requirement: 4.5 V, current drain: less than 500 mA) like a Discman, the power of the portable equipment could be supplied from the system. Remove the protection cover first from the system. Connect the portable equipment and the system with the supplied DC output cord as illustrated. (The portable equipment may be placed on top of the woofer module as illustrated.) The DC output is not operated by the POWER switch of the system. When you disconnect the plug of the DC output cord from the woofer module, pull the plug out while pressing down the catch on the plug.

Notes on the Insulators

Use the supplied insulators when you place the portable equipment such as Discman on top of the woofer module. Attach the supplied insulators on the top side of the woofer module as illustrated.

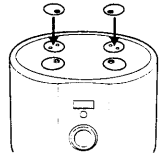
When you place equipment such as a Discman etc.

Attach the insulators with their projecting parts pointing outwards.



When you place equipment such as a Mini Disc player etc.

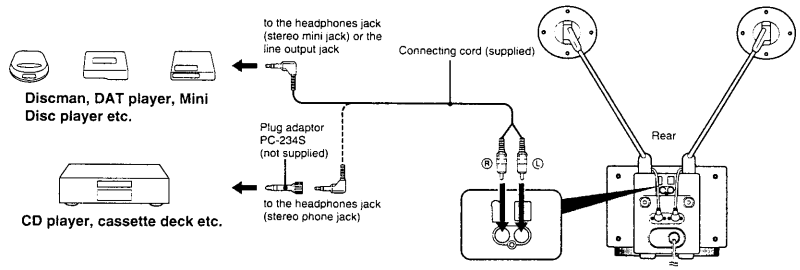
Attach the insulators with their projecting parts pointing inwards.



Notes

- When you detach the insulators, do not pull them by holding the projecting parts.
- A dirty or defective disc or some player may cause sound drop-outs in playing. In such a case, place the portable equipment further away from the system.
- When you use the Discman equipped with the ESP function and the ESP function is activated, some discs may cause the Discman unit to vibrate. In such a case, turn the ESP function off.

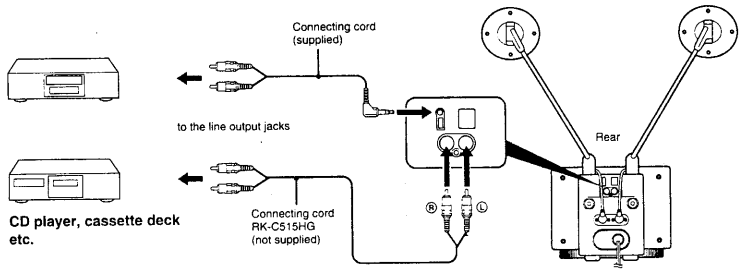
Connecting to a Stereo Phone-type Headphones Jack


to the headphones jack (stereo mini jack) or the line output jack
Connecting cord (supplied)
Discman, DAT player, Mini Disc player etc.
Plug adaptor PC-234S (not supplied)
Rear
CD player, cassette deck etc.
to the headphones jack (stereo phone jack)

This section is extracted from instruction manual.

SECTION 1
GENERAL

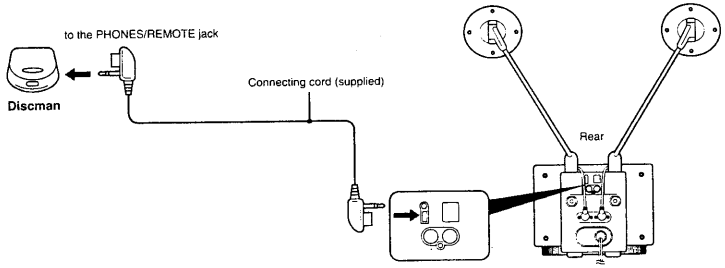
Connecting to an RCA Pin Jack



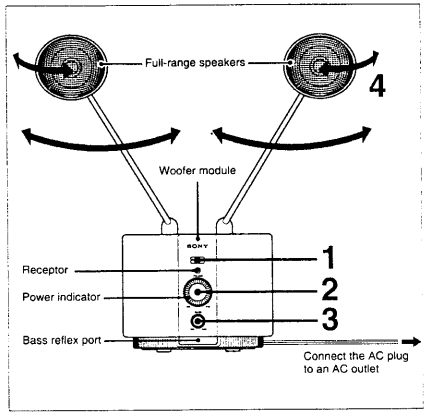
Note

When two types of audio equipment are connected to the system (with the supplied connecting cord and the optional connecting cord) and are played at the same time, the sound from both of them will come out of the speakers. Therefore, make sure that either of the equipment is always turned off. When you connect only one audio equipment, make sure that the connecting cord not being used is disconnected from the system. Otherwise, it may cause some noise.

Connecting to a Discman Equipped With a PHONES/REMOTE Jack



Operation



1 **Press the POWER switch to turn on the system.** (Be sure to turn on the connected equipment before operating this switch.) The power indicator lights up.

2 **Adjust the volume on the full-range speakers and woofer with the VOLUME control.** Turn clockwise (to MAX) to increase. Adjust the volume of the connected equipment to your preference in advance.

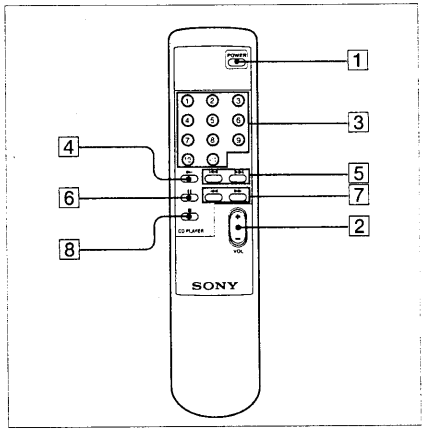
3 **Adjust the bass with the BASS control.** Turn clockwise (to MAX) to boost the bass.

4 **Adjust the angle of the full-range speakers horizontally.**

After use

Press the POWER switch to turn off the system.

Operating the Remote Commander



Speaker operation buttons

Note

When you operate the following buttons, point the remote commander towards the receptor on the front of the woofer module.

[1] **POWER switch**
Press to turn on the system.
Press again to turn off the system.*

* If a Discman equipped with a PHONES/REMOTE jack is connected to the system, the Discman will be turned off as well.

[2] **VOL button**

CD player or Discman operation buttons

Note

The supplied remote commander is designed for operating the Sony CD players and Discman only. When you connect other manufacturers' equipment to the system, you will not be able to operate the equipment with the supplied remote commander.

Operating a CD player or a Discman connected with the optional remote control kit

Note

When you operate the connected equipment, point the remote commander towards the receptor on the connected equipment.

3 **Numeric buttons**
During CD play, press the numeric button(s) to locate a desired track.
For example:
To locate the 12th track: Press the ≥10 button and then press the 2 button.
To locate the 24th track: Press the ≥10 button twice and then press the 4 button.

4 **► (play) button**
Press to start CD play.

5 **I◄◄/►►I buttons**
Press the I◄◄ button to locate the beginning of a current track.
Press the ►►I button to locate the beginning of a succeeding track.
Each time you press the I◄◄ button, the CD player or the Discman will locate the current and previous tracks. Each time you press the ►►I button, the CD player or the Discman will locate the next tracks.

6 **II button**
Press to pause CD play.
Press again to release the pause mode.

7 **◄◄/►► buttons***
Keep the ◄◄ button pressed to fast-reverse at high speed.
Keep the ►► button pressed to fast-forward at high speed.
*The ◄◄/►► buttons may not function when operating some models of CD player.

8 **■ (stop) button**
Press to stop CD play.

Operating a Discman equipped with a PHONES/REMOTE jack

Note

When you operate the following buttons, point the remote commander towards the receptor on the front of the woofer module.

The function of some buttons do not correspond with some models of Discman. Refer to the operation instructions manual supplied to your Discman.

- The II button does not function. (The ► button functions in the same way as the ►II button on the Discman.)
- When you press the ► button as long as the AC plug is being connected to the AC outlet, the system and the connected Discman are turned on automatically and CD play starts.
- The ◄◄/►► buttons function in the same way as the I◄◄/►►I buttons being held pressed. (The I◄◄/►►I buttons function in the same way as the I◄◄/►►I buttons on the Discman.)

Operating a Discman equipped with the key mode function
In same mode, the I◄◄/►►I buttons function in the same way as the ◄◄/►► buttons.

Operating a Discman equipped with the infrared receptor for the remote commander

Note

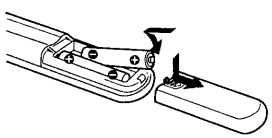
When you operate the Discman, point the remote commander towards the receptor on the Discman.

When operating this type of a Discman, an initial setting is required so that all the buttons on the remote commander become operative with the Discman.

Press the POWER switch and the 2 button simultaneously.
To cancel this setting
Press the POWER switch and the 1 button simultaneously.

Inserting batteries

Open the battery compartment lid of the remote commander and insert two R6 (size AA) batteries (not supplied).



Note on the remote commander

Do not let direct sunlight or powerful artificial light fall directly onto the receptor on the front of the woofer module as it may interfere with operation or damage the receptor.

Battery life

In normal operation, batteries will last for about six months. If the operating range of the remote commander becomes noticeably short, replace both batteries with new ones.

If the remote commander is not to be used for a long period of time

Remove the batteries to avoid possible damage from battery leakage and the subsequent corrosion.

SECTION 2
DIAGRAMS

2-1. IC PIN DESCRIPTION

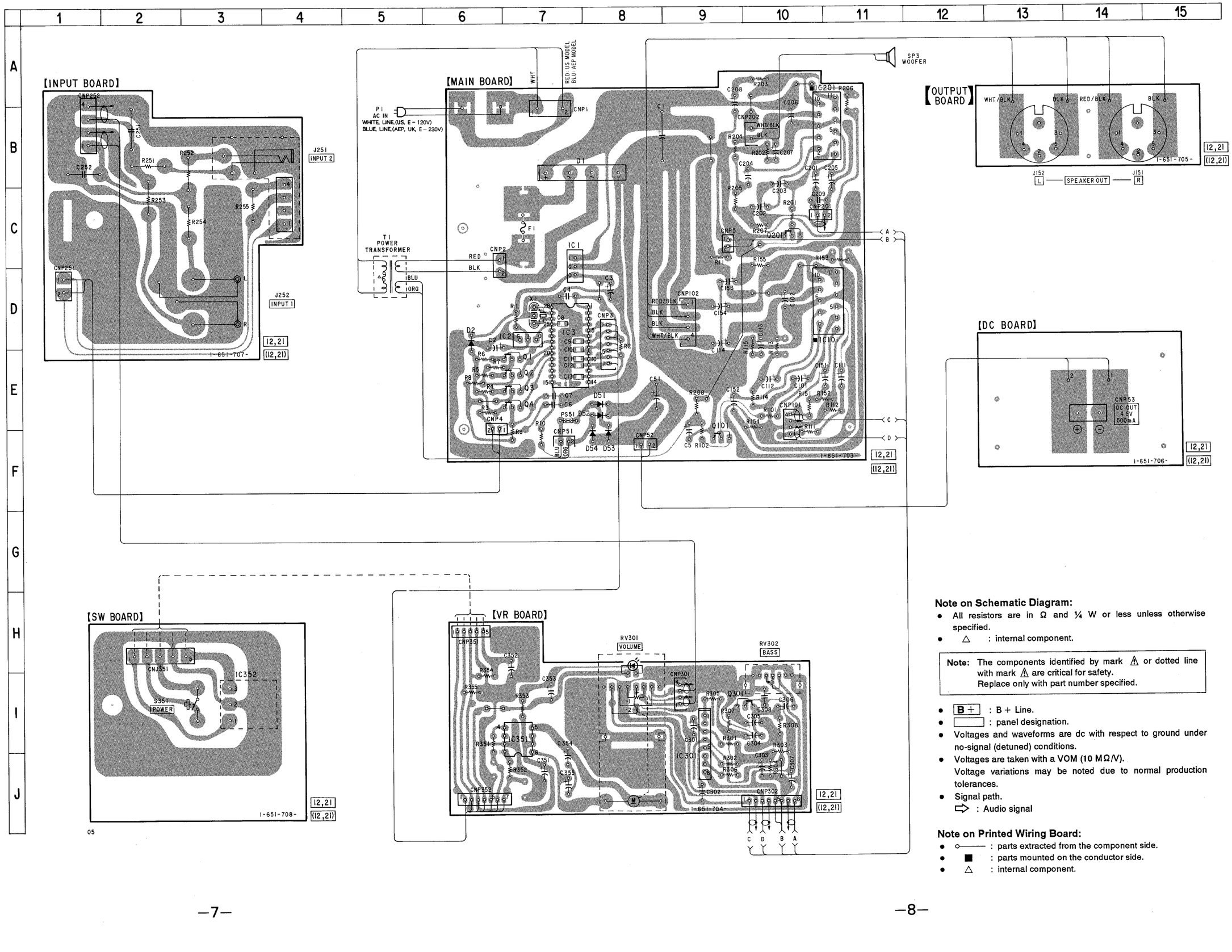
MAIN BOARD IC3 MN155202SNZ

Pin No.	Port	Pin Name	I/O	Description
1	VDD	VDD	I	Digital power supply voltage supplying terminal
2	$\overline{SBT}$	NC	—	Not used
3	$\overline{SBO}$	NC	—	Not used
4	$\overline{SBI}$	POLAR SW	I	Polarity jumper (H → Positive polarrity L → Negative polarity)
5	$\overline{IRQ}$	REMOTE IN	I	Remote control signal input
6	P42	CATEGORY SW	I	Category jumper
7	P00	POWER KEY	I	Power supply ON/OFF input (Toggle operation)
8	P01	POWER LED	O	Power supply OFF: H, Power supply ON : L
9	P02	POWER LED	O	Power supply OFF: H, Power supply ON : L
10	P03	VOL UP	O	VOL+ : H, VOL − : L Normally "L"
11	P10	VOL DOWN	O	VOL+ : H, VOL − : L Normaly "L"
12	P11	NC	—	Not used
13	P12	POWER JUGDE	I	Power down monitor input
14	P13	NC	—	Not used
15	P20	STANDBY CONTROL	O	Power supply OFF : H is output, Power supply ON : L is output
16	P21	NC	—	Not used
17	P22	NC	—	Not used
18	P23	NC	—	Not used
19	P30	CDP REW	O	Discman CD REW
20	P31	CDP FF	O	Discman CD FF
21	P32	CDP PLAY	O	Diskman CD PLAY
22	P33	CDP STOP	O	Discman CD STOP
23	P50	NC	—	Not used
24	P51	NC	—	Not used
25	$\overline{RST}$	RESET	I	Reset signal input
26	OSC2	OSC 2	O	Clock oscilliating X-Tal connection terminal (4 MHz)
27	OSC1	OSC 1	I	
28	Vss	Vss	I	Digital power supply voltage supplying terminal (GND)

2-2. PRINTED WIRING BOARDS • See page 11 for Semiconductor Lead Layouts.

• **Semiconductor Location**

Ref. No.	Location
D1	B-7
D2	D-6
D51	E-8
D52	E-8
D53	F-8
D54	F-8
IC1	C-7
IC2	D-7
IC3	D-7
IC101	D-11
IC201	B-11
IC301	J-9
IC351	I-7
IC352	I-3
Q1	E-7
Q2	E-7
Q3	E-7
Q4	E-7
Q101	F-9
Q201	C-10
Q301	I-9



Note on Schematic Diagram:

- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

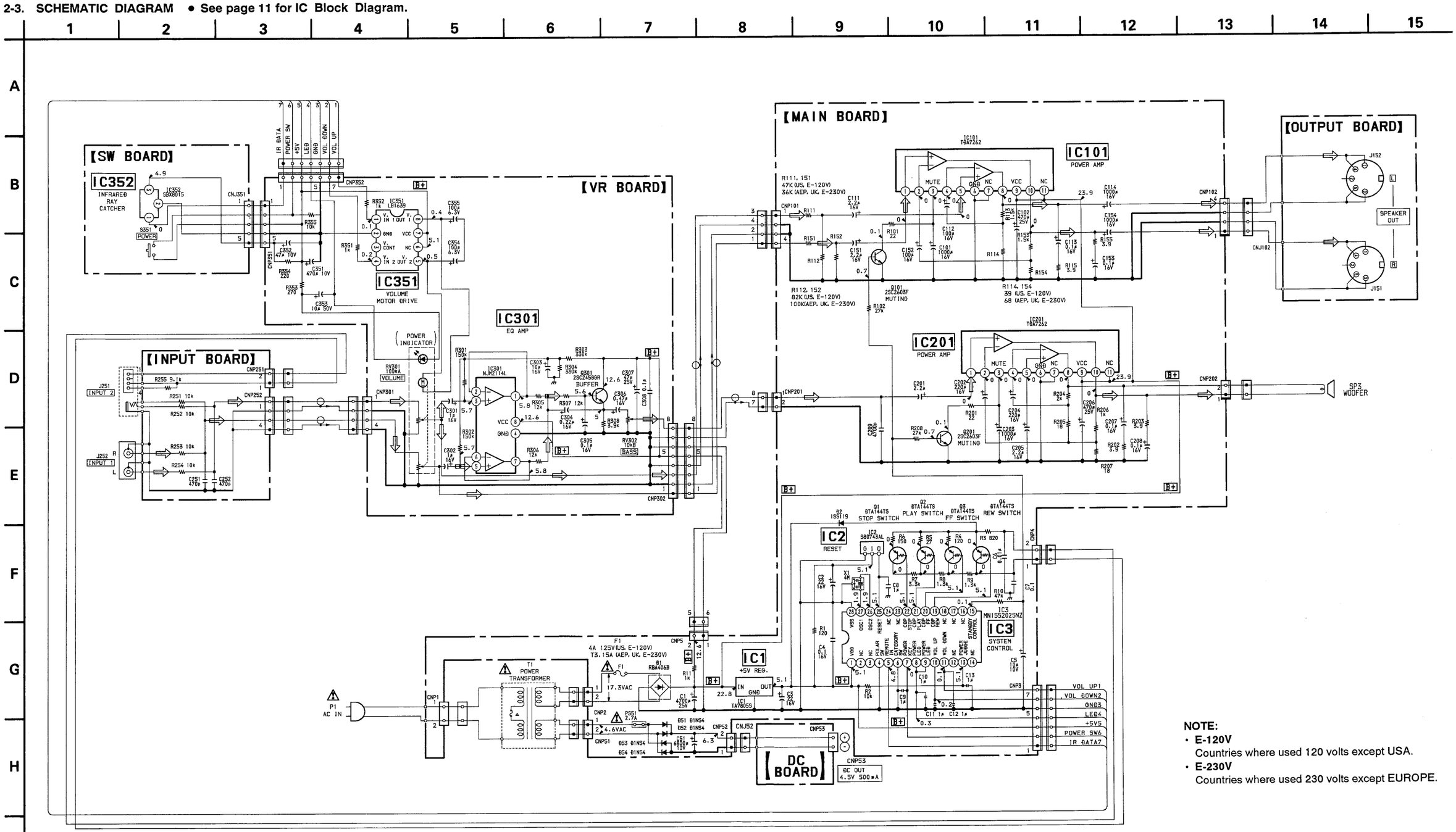
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B + : B + Line.
- ▭ : panel designation.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : Audio signal

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- △ : internal component.

2-3. SCHEMATIC DIAGRAM • See page 11 for IC Block Diagram.

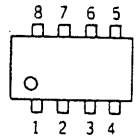


NOTE:

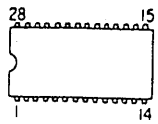
- **E-120V**
  Countries where used 120 volts except USA.
- **E-230V**
  Countries where used 230 volts except EUROPE.

• Semiconductor Lead Layouts

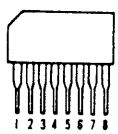
LB1639



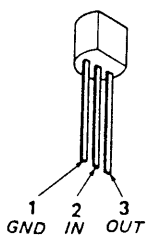
MN155202SNZ



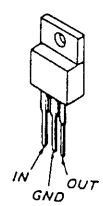
NJM2114L



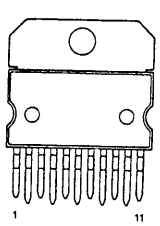
S-80743AL-A7-S



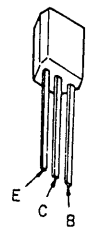
TA7805S



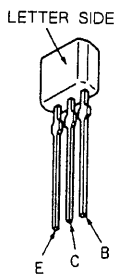
TDA7262



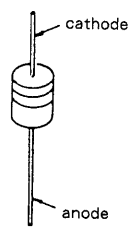
DTA144TS
2SC2458L-GR



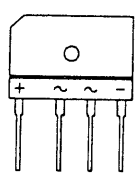
2SC2785-HFE



D1NS4
1SS119

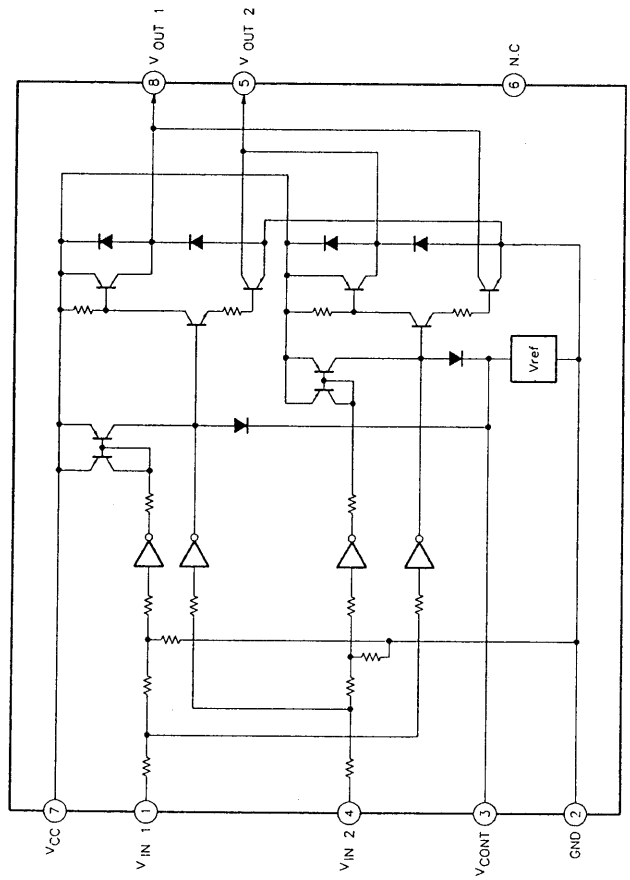


RBA-406B

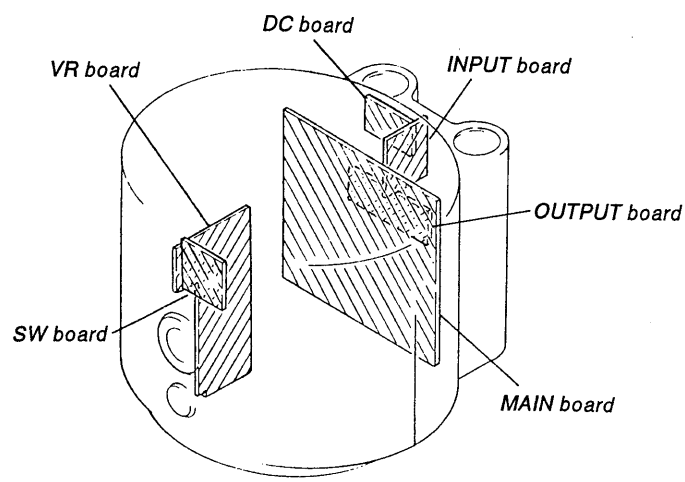


• IC Block Diagram

IC351 LB1639



• Circuit Boards Location



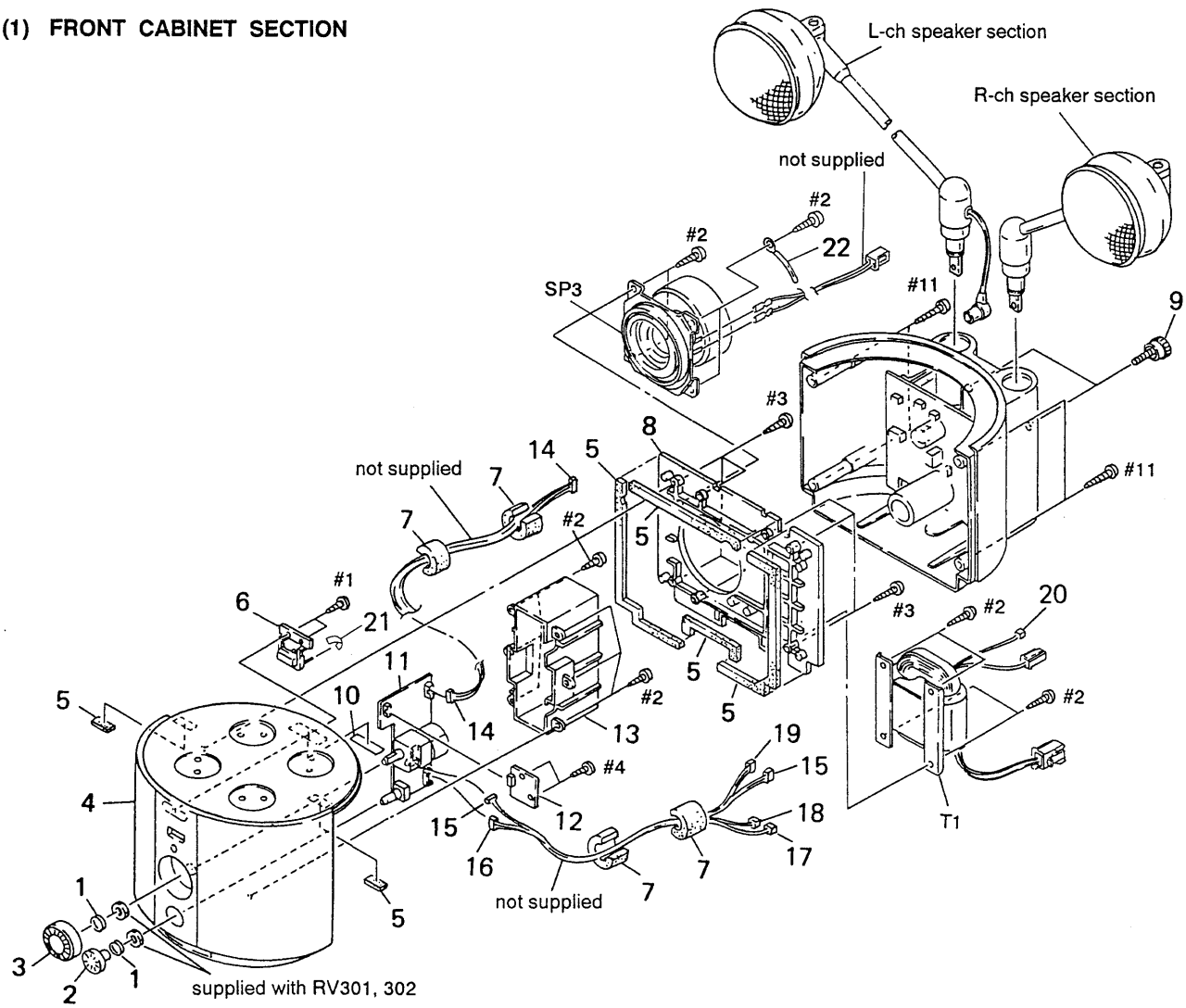
SECTION 3
EXPLODED VIEWS

NOTE:
- **E-120V**
  Countries where used 120 volts except USA.
- **E-230V**
  Countries where used 230 volts except EUROPE.

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

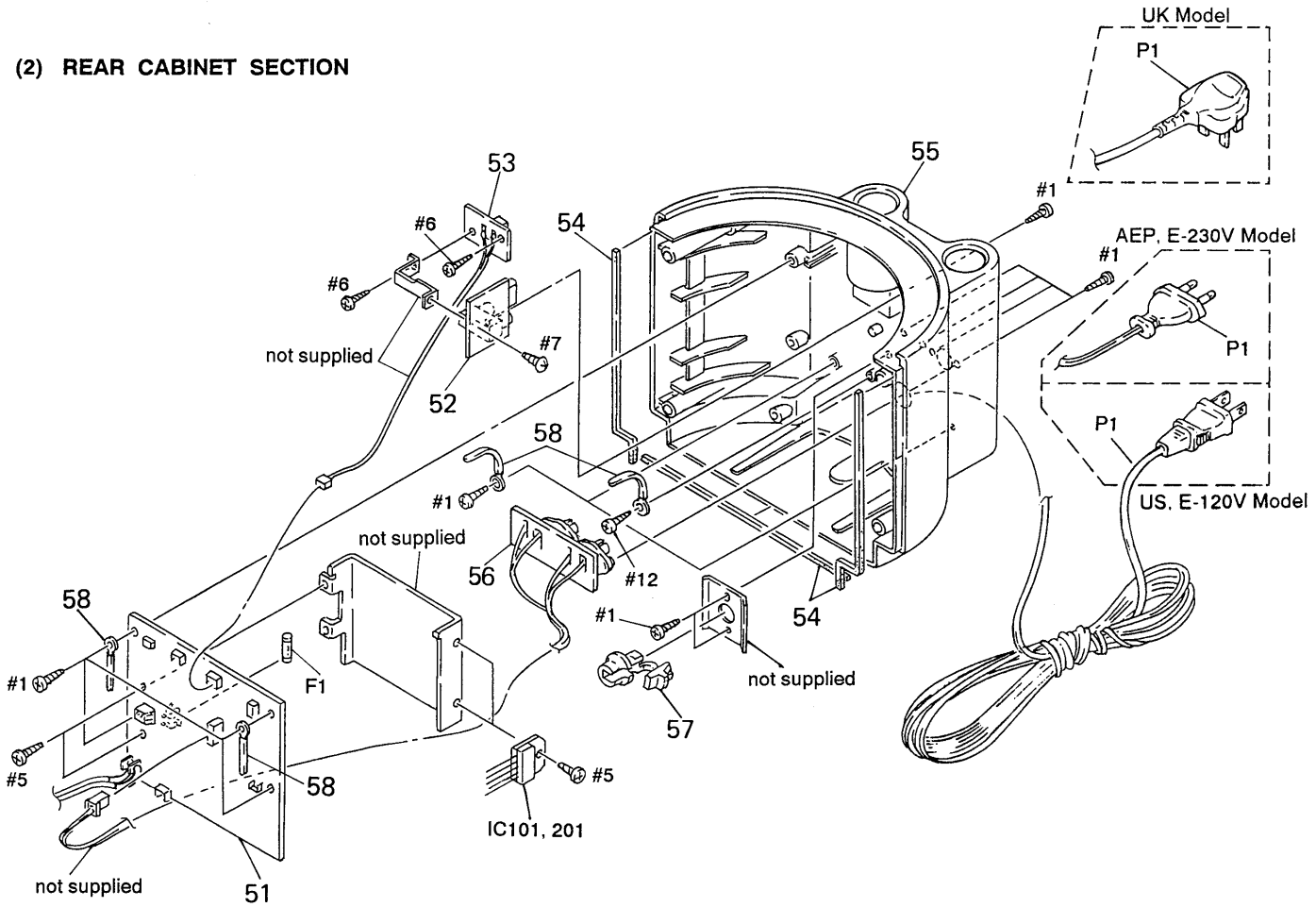
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	4-964-032-01	SPRING, COIL	
2	4-963-455-01	KNOB (BUS)	
3	X-4944-364-1	KNOB (VOLUME) ASSY	
4	X-4944-363-1	CABINET (WOOFER) ASSY, FRONT	
5	9-911-815-01	PACKING (CABINET)	
6	4-963-459-01	BUTTON (POWER)	
7	9-911-830-XX	PACKING (CORD)	
8	4-963-451-01	PARTITION	
9	2-135-638-11	KNOB (BATTERY CASE LID)	
10	3-831-441-11	CUSHION (F)	
* 11	1-651-704-11	VR BOARD	
* 12	1-651-708-11	SW BOARD	
* 13	4-963-453-01	COVER	
* 14	1-573-471-11	HOUSING, CONNECTOR 7P	
* 15	1-573-468-11	HOUSING, CONNECTOR 4P	
* 16	1-573-472-11	HOUSING, CONNECTOR 8P	
* 17	1-573-466-11	HOUSING, CONNECTOR 2P	
* 18	1-573-466-21	HOUSING, CONNECTOR 2P	
* 19	1-573-468-21	HOUSING, CONNECTOR 4P	
* 20	1-764-322-21	HOUSING, CONNECTOR 2P	
* 21	3-332-189-01	SPACER (A)	
* 22	3-703-150-11	CLAMP	
SP3	1-504-520-11	SPEAKER (WOOFER)	
⚠T1	1-423-939-11	TRANSFORMER, POWER (US, E-120V)	
⚠T1	1-423-940-11	TRANSFORMER, POWER (AEP, UK, E-230V)	

(2) REAR CABINET SECTION

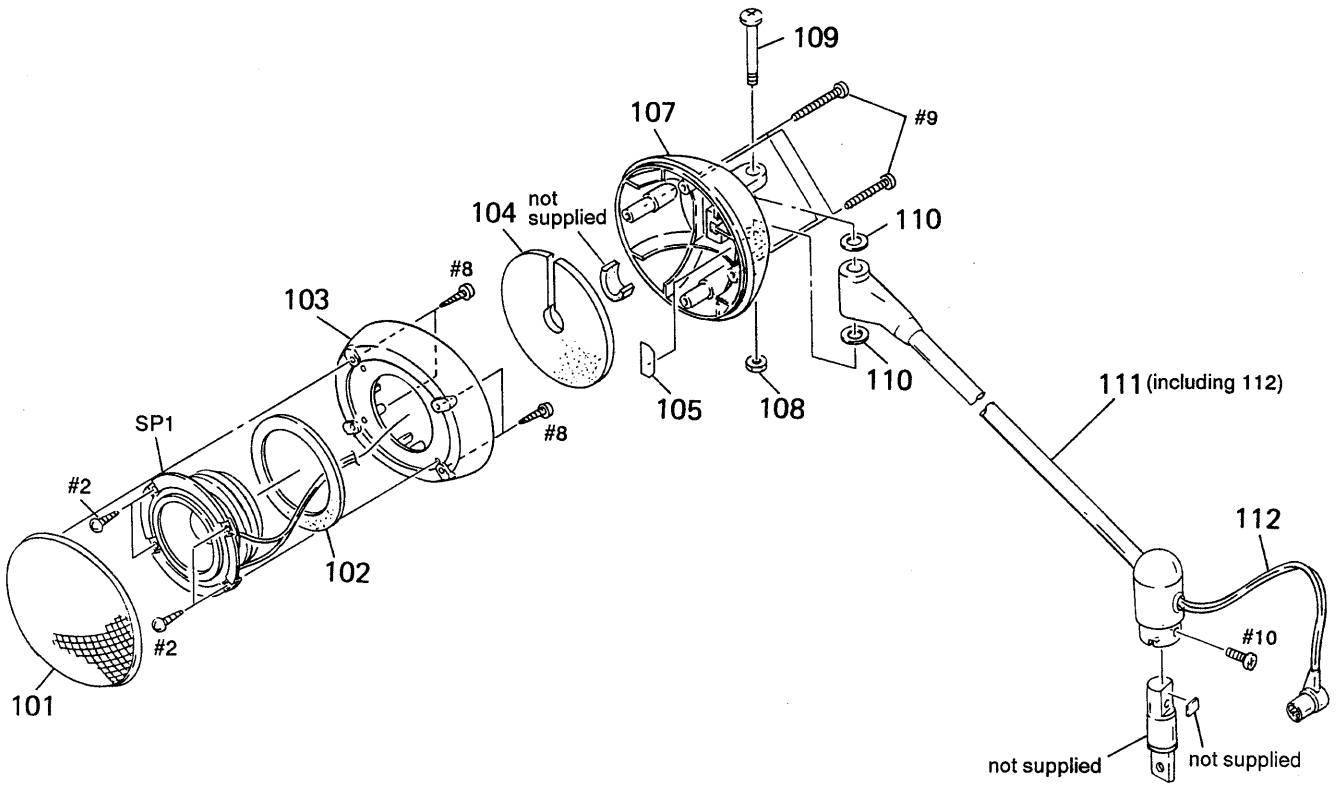


Ref. No.	Part No.	Description	Remark
* 51	1-651-703-11	MAIN BOARD	
* 52	1-651-707-11	INPUT BOARD	
* 53	1-651-706-11	DC BOARD	
54	9-911-815-01	PACKING (CABINET)	
55	4-963-450-01	CABINET (WOOFER), REAR	
* 56	1-651-705-11	OUTPUT BOARD	
57	2-391-455-01	BUSHING (CM-22C) (US, E-120V)	
57	2-391-456-01	BUSHING (CM-22B) (AEP, UK, E-230V)	

Ref. No.	Part No.	Description	Remark
* 58	3-703-150-11	CLAMP	
⚠F1	1-532-237-00	FUSE, TIME-LAG (BET) (AEP, UK, E-230V) (T3.15A)	
⚠F1	1-532-746-11	FUSE, GLASS TUBE (US, E-120V) (4A 125V)	
⚠P1	1-696-572-21	CORD, POWER (UK)	
⚠P1	1-557-577-11	CORD, POWER (US, E-120V)	
⚠P1	1-765-558-11	CORD, POWER (AEP, E-230V)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

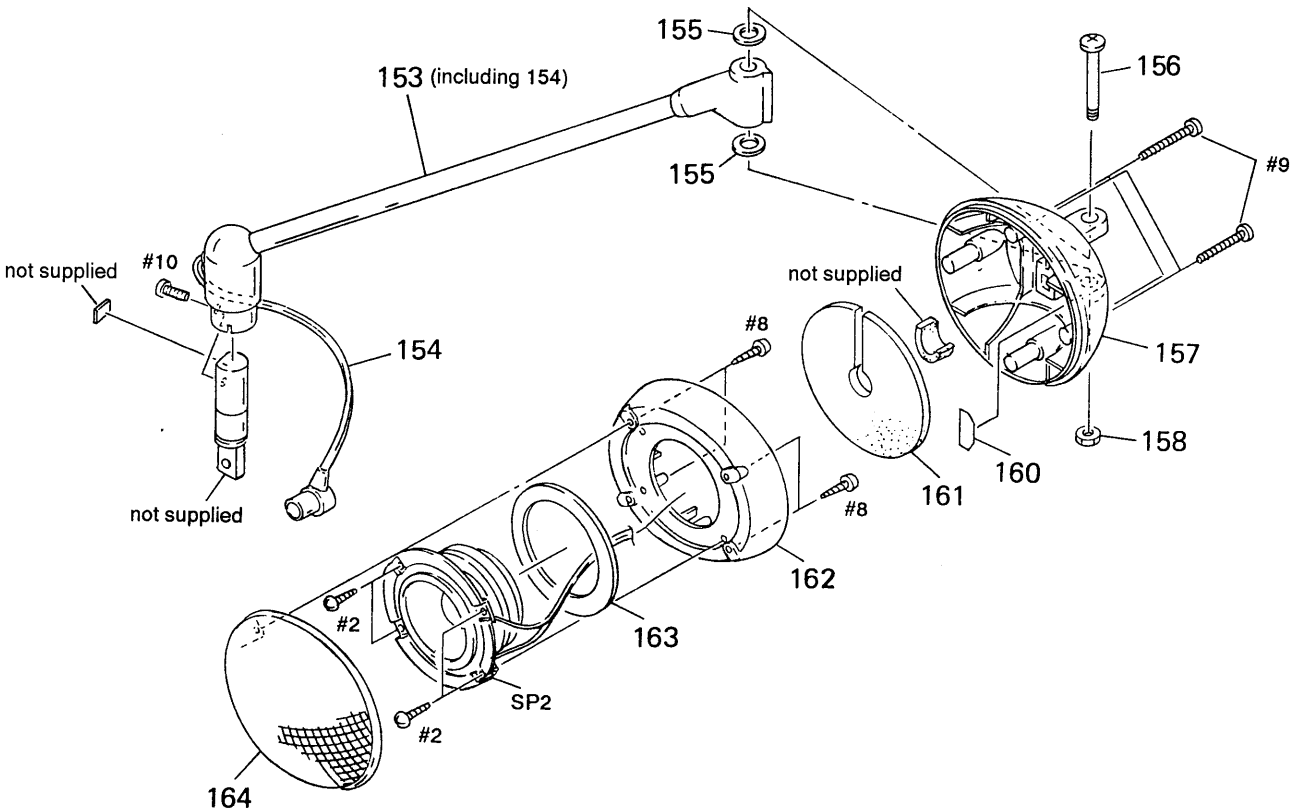
(3) L-CH SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
101	X-4944-365-1	GRILLE ASSY	
102	4-963-474-01	PACKING	
103	4-963-469-01	CABINET (FULL RANGE), FRONT	
* 104	4-965-002-02	ABSORBENT, ACOUSTIC	
105	4-965-001-01	REGISTER	
107	4-963-470-01	CABINET (FULL RANGE), REAR	

Ref. No.	Part No.	Description	Remark
108	4-965-003-01	NUT	
109	4-963-468-01	SCREW (M3), +P	
110	3-146-316-31	RING, RUBBER	
111	X-4944-366-1	ARM (L) ASSY	
112	1-765-150-11	CORD (WITH PLUG)	
SP1	1-504-519-11	SPEAKER	

(4) R-CH SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
153	X-4944-367-1	ARM (R) ASSY	
154	1-765-150-11	CORD (WITH PLUG)	
155	3-146-316-31	RING, RUBBER	
156	4-963-468-01	SCREW (M3), +P	
157	4-963-470-01	CABINET (FULL RANGE), REAR	
158	4-965-003-01	NUT	

Ref. No.	Part No.	Description	Remark
160	4-965-001-01	REGISTER	
* 161	4-965-002-02	ABSORBENT, ACOUSTIC	
162	4-963-469-01	CABINET (FULL RANGE), FRONT	
163	4-963-474-01	PACKING	
164	X-4944-365-1	GRILLE ASSY	
SP2	1-504-519-11	SPEAKER	

NOTE:
- **E-120V**
  Countries where used 120 volts except USA.
- **E-230V**
  Countries where used 230 volts except EUROPE.

DC INPUT MAIN

SECTION 4
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-651-706-11	DC BOARD			
		********			
		< CONNECTOR >			
* CNP53	1-764-320-21	PIN, CONNECTOR (PC BOARD) 2P			
**********					
*	1-651-707-11	INPUT BOARD			
		**********			
	3-831-441-XX	CUSHION			
		< CAPACITOR >			
C251	1-162-290-31	CERAMIC	470PF	10%	50V
C252	1-162-290-31	CERAMIC	470PF	10%	50V
		< CONNECTOR >			
* CNP251	1-573-480-11	PIN, CONNECTOR (PC BOARD) 2P			
* CNP252	1-695-106-21	PIN, CONNECTOR (PC BOARD) 4P			
		< JACK >			
J251	1-580-680-11	JACK (INPUT 2)			
* J252	1-764-319-11	JACK, PIN (INPUT 1)			
		< RESISTOR >			
R251	1-249-429-11	CARBON	10K	5%	1/4W
R252	1-249-429-11	CARBON	10K	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-247-854-11	CARBON	9.1K	5%	1/4W
**********					
*	1-651-703-11	MAIN BOARD			
		**********			
	1-533-183-11	HOLDER, FUSE			
		< CAPACITOR >			
C1	1-124-564-11	ELECT	4700uF	20%	25V
C2	1-124-234-00	ELECT	22uF	20%	16V
C3	1-124-234-00	ELECT	22uF	20%	16V
C4	1-162-851-11	CERAMIC	0.1uF		16V
C5	1-126-157-11	ELECT	10uF	20%	16V
C6	1-162-306-11	CERAMIC	0.01uF	20%	25V
C7	1-162-851-11	CERAMIC	0.1uF		16V
C8	1-164-346-11	CERAMIC CHIP	1uF		16V
C9	1-164-346-11	CERAMIC CHIP	1uF		16V
C10	1-164-346-11	CERAMIC CHIP	1uF		16V
C11	1-164-346-11	CERAMIC CHIP	1uF		16V
C12	1-164-346-11	CERAMIC CHIP	1uF		16V
C13	1-164-346-11	CERAMIC CHIP	1uF		16V
C51	1-126-017-11	ELECT	6800uF	20%	10V
C101	1-126-013-11	ELECT	1000uF	20%	16V
C102	1-126-026-11	ELECT	470uF	20%	25V
C111	1-127-493-00	ELECT(SOLID)	2.2uF	20%	16V
C112	1-127-518-11	ELECT(SOLID)	100uF	20%	16V
C113	1-127-500-00	ELECT(SOLID)	0.1uF	20%	16V
C114	1-124-360-00	ELECT	1000uF	20%	16V
C151	1-127-493-00	ELECT(SOLID)	2.2uF	20%	16V
C152	1-127-518-11	ELECT(SOLID)	100uF	20%	16V
C153	1-127-500-00	ELECT(SOLID)	0.1uF	20%	16V
C154	1-124-360-00	ELECT	1000uF	20%	16V
C201	1-127-493-00	ELECT(SOLID)	2.2uF	20%	16V
C202	1-126-024-11	ELECT	220uF	20%	16V
C203	1-126-013-11	ELECT	1000uF	20%	16V
C204	1-126-024-11	ELECT	220uF	20%	16V
C205	1-127-493-00	ELECT(SOLID)	2.2uF	20%	16V
C206	1-126-026-11	ELECT	470uF	20%	25V
C207	1-127-500-00	ELECT(SOLID)	0.1uF	20%	16V
C208	1-127-500-00	ELECT(SOLID)	0.1uF	20%	16V
C209	1-162-600-11	CERAMIC	0.0047uF	30%	16V
		< CONNECTOR >			
CNP1	1-564-321-00	PIN, CONNECTOR 2P			
* CNP2	1-764-485-11	PIN, CONNECTOR (PC BOARD) 2P			
* CNP3	1-573-485-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP4	1-573-480-11	PIN, CONNECTOR (PC BOARD) 2P			
* CNP5	1-573-480-21	PIN, CONNECTOR (PC BOARD) 2P			
CNP51	1-564-505-11	PLUG, CONNECTOR 2P			

Ref. No.	Part No.	Description	Remark
* CNP52	1-564-505-11	PLUG, CONNECTOR 2P	
CNP101	1-564-706-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP102	1-764-321-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP201	1-573-480-11	PIN, CONNECTOR (PC BOARD) 2P	
* CNP202	1-764-320-21	PIN, CONNECTOR (PC BOARD) 2P	
		< DIODE >	
D1	8-719-312-47	DIODE RBA-406B	
D2	8-719-911-19	DIODE 1SS119	
D51	8-719-510-02	DIODE D1NS4	
D52	8-719-510-02	DIODE D1NS4	
D53	8-719-510-02	DIODE D1NS4	
D54	8-719-510-02	DIODE D1NS4	
		< FUSE >	
⚠F1	1-532-237-00	FUSE, TIME-LAG (BET) (T3.15A) (AEP, UK, E-230V)	
⚠F1	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (US, E-120V)	
		< IC >	
IC1	8-759-231-53	IC TA7805S	
IC2	8-759-042-02	IC S80743AL-A7-S	
IC3	8-759-255-68	IC MN155202SNZ	
IC101	8-759-089-13	IC TDA7262	
IC201	8-759-089-13	IC TDA7262	
		< IC LINK >	
⚠PS51	1-532-686-21	LINK, IC	
		< TRANSISTOR >	
Q1	8-729-925-70	TRANSISTOR DTA144TS	
Q2	8-729-925-70	TRANSISTOR DTA144TS	
Q3	8-729-925-70	TRANSISTOR DTA144TS	
Q4	8-729-925-70	TRANSISTOR DTA144TS	
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R1	1-249-406-11	CARBON 120 5% 1/4W F	
R2	1-249-429-11	CARBON 10K 5% 1/4W	
R3	1-249-416-11	CARBON 820 5% 1/4W F	
R4	1-249-406-11	CARBON 120 5% 1/4W F	
R5	1-249-398-11	CARBON 27 5% 1/4W F	
R6	1-247-811-31	CARBON 150 5% 1/4W	
R7	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R8	1-247-834-11	CARBON 1.3K 5% 1/4W	
R9	1-247-834-11	CARBON 1.3K 5% 1/4W	
R10	1-249-437-11	CARBON 47K 5% 1/4W	
R11	1-249-417-11	CARBON 1K 5% 1/4W F	
R101	1-249-397-11	CARBON 22 5% 1/4W F	
R102	1-249-434-11	CARBON 27K 5% 1/4W	
R111	1-247-868-11	CARBON 36K 5% 1/4W (AEP, UK, E-230V)	
R111	1-249-437-11	CARBON 47K 5% 1/4W (US, E-120V)	
R112	1-249-440-11	CARBON 82K 5% 1/4W (US, E-120V)	
R112	1-249-441-11	CARBON 100K 5% 1/4W (AEP, UK, E-230V)	
R113	1-259-432-11	CARBON 1.5K 5% 1/6W	
R114	1-259-394-11	CARBON 39 5% 1/6W (US, E-120V)	
R114	1-259-400-11	CARBON 68 5% 1/6W (AEP, UK, E-230V)	
R115	1-249-388-11	CARBON 3.9 5% 1/6W F	
R151	1-247-868-11	CARBON 36K 5% 1/4W (AEP, UK, E-230V)	
R151	1-249-437-11	CARBON 47K 5% 1/4W (US, E-120V)	
R152	1-249-440-11	CARBON 82K 5% 1/4W (US, E-120V)	
R152	1-249-441-11	CARBON 100K 5% 1/4W (AEP, UK, E-230V)	
R153	1-259-432-11	CARBON 1.5K 5% 1/6W	
R154	1-259-394-11	CARBON 39 5% 1/6W (US, E-120V)	
R154	1-259-400-11	CARBON 68 5% 1/6W (AEP, UK, E-230V)	
R155	1-249-388-11	CARBON 3.9 5% 1/6W F	
R201	1-249-397-11	CARBON 22 5% 1/4W F	
R202	1-249-388-11	CARBON 3.9 5% 1/6W F	
R203	1-249-388-11	CARBON 3.9 5% 1/6W F	
R204	1-259-435-11	CARBON 2K 5% 1/6W	
R205	1-249-396-11	CARBON 18 5% 1/6W	
R206	1-259-428-11	CARBON 1K 5% 1/6W	
R207	1-249-396-11	CARBON 18 5% 1/6W	
R208	1-249-434-11	CARBON 27K 5% 1/4W	
		< VIBRATOR >	
X1	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	

****

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

OUTPUT SW VR

Ref. No.	Part No.	Description				Remark
*	1-651-705-11	OUTPUT BOARD				
		**********				
		< CONNECTOR >				
* CNJ102	1-764-323-11	HOUSING, CONNECTOR 4P				
		< JACK >				
* J151	1-764-318-11	CONNECTOR (DIN SOCKET) 5P (SPEAKER OUT :R)				
* J152	1-764-318-11	CONNECTOR (DIN SOCKET) 5P (SPEAKER OUT :L)				
**********						
*	1-651-708-11	SW BOARD				
		********				
		< CONNECTOR >				
* CNJ351	1-569-382-11	SOCKET, CONNECTOR (PC BOARD) 5P				
		< IC >				
IC352	8-748-015-08	IC RAY CATCHER ELEMENT SBX8015-H				
		< SWITCH >				
S351	1-571-760-11	SWITCH, KEY BOARD (POWER)				
**********						
*	1-651-704-11	VR BOARD				
		********				
		< CAPACITOR >				
C301	1-127-539-11	ELECT(SOLID)	1uF	20%	25V	
C302	1-127-539-11	ELECT(SOLID)	1uF	20%	25V	
C303	1-127-512-00	ELECT(SOLID)	10uF	20%	16V	
C304	1-127-523-11	ELECT(SOLID)	0.22uF	20%	16V	
C305	1-127-500-00	ELECT(SOLID)	0.1uF	20%	16V	
C306	1-127-504-00	ELECT(SOLID)	0.47uF	20%	16V	
C307	1-126-022-11	ELECT	47uF	20%	25V	
C308	1-162-851-11	CERAMIC	0.1uF		16V	
C351	1-126-925-11	ELECT	470uF	20%	10V	
C352	1-124-126-00	ELECT	47uF	20%	10V	
C353	1-124-907-11	ELECT	10uF	20%	50V	
C354	1-124-443-00	ELECT	100uF	20%	10V	
C355	1-124-443-00	ELECT	100uF	20%	10V	
		< CONNECTOR >				
CNP301	1-564-706-11	PIN, CONNECTOR (PC BOARD) 4P				
* CNP302	1-573-486-11	PIN, CONNECTOR (PC BOARD) 8P				
* CNP351	1-569-390-11	PIN, CONNECTOR (PC BOARD) 5P				
* CNP352	1-573-485-11	PIN, CONNECTOR (PC BOARD) 7P				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC301	8-759-712-03	IC NJM2114L				
IC351	8-759-820-62	IC LB1639				
		< TRANSISTOR >				
Q301	8-729-205-83	TRANSISTOR 2SC2458L-GR				
		< RESISTOR >				
R301	1-247-883-00	CARBON	150K	5%	1/4W	
R302	1-247-883-00	CARBON	150K	5%	1/4W	
R303	1-247-891-00	CARBON	330K	5%	1/4W	
R304	1-247-891-00	CARBON	330K	5%	1/4W	
R305	1-249-430-11	CARBON	12K	5%	1/4W	
R306	1-249-430-11	CARBON	12K	5%	1/4W	
R307	1-249-430-11	CARBON	12K	5%	1/4W	
R308	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R351	1-249-417-11	CARBON	1K	5%	1/4W	F
R352	1-249-417-11	CARBON	1K	5%	1/4W	F
R353	1-249-410-11	CARBON	270	5%	1/4W	F
R354	1-249-409-11	CARBON	220	5%	1/4W	F
R355	1-249-429-11	CARBON	10K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-241-999-11	RES, VAR, CARBON 100K/100K (VOLUME)				
RV302	1-223-549-11	RES, VAR, CARBON 10K/10K (BASS)				
**********						
		MISCELLANEOUS				
		**********				
* 14	1-573-471-11	HOUSING, CONNECTOR 7P				
* 15	1-573-468-11	HOUSING, CONNECTOR 4P				
* 16	1-573-472-11	HOUSING, CONNECTOR 8P				
* 17	1-573-466-11	HOUSING, CONNECTOR 2P				
* 18	1-573-466-21	HOUSING, CONNECTOR 2P				
* 19	1-573-468-21	HOUSING, CONNECTOR 4P				
* 20	1-764-322-21	HOUSING, CONNECTOR 2P				
112	1-765-150-11	CORD (WITH PLUG)				
154	1-765-150-11	CORD (WITH PLUG)				
⚠P1	1-696-572-21	CORD, POWER (UK)				
⚠P1	1-557-577-11	CORD, POWER (US, E-120V)				
⚠P1	1-765-558-11	CORD, POWER (AEP, E-230V)				
SP1	1-504-519-11	SPEAKER				
SP2	1-504-519-11	SPEAKER				
SP3	1-504-520-11	SPEAKER (WOOFER)				
⚠T1	1-423-939-11	TRANSFORMER, POWER (US, E-120V)				
⚠T1	1-423-940-11	TRANSFORMER, POWER (AEP, UK, E-230V)				

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The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark

ACCESSORIES & PACKING MATERIALS

	1-467-607-11	REMOTE COMMANDER (RM-N100)	
	1-590-161-11	CORD, CONNECTION	
	1-751-476-11	CORD, CONNECTION	
	1-751-766-11	CORD, CONNECTION (DC)	
	3-757-982-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, PORTUGUESE, DUTCH, SWEDISH) (AEP, UK, E-230V)	
	3-757-982-21	MANUAL, INSTRUCTION (ENGLISH) (US, E-120V)	
*	4-911-408-01	LABEL, INDICATION, LEFT	
*	4-911-408-11	LABEL, INDICATION, RIGHT	
	4-963-457-01	INSULATOR	
*	4-964-955-01	CUSHION (UPPER)	
*	4-964-956-01	CUSHION (LOWER)	
	4-964-997-01	STOPPER	
*	4-967-579-01	INDIVIDUAL CARTON	
	9-902-546-01	LID, BATTERY (FOR RM-N100)	

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S
#4	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S
#5	7-682-547-09	SCREW +BVTT 3X6 (S)
#6	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#7	7-621-773-95	SCREW +BVTT 2.6X6 (S)
#8	7-685-138-19	SCREW +BTP 2.6X16 TYPE2 N-S
#9	7-685-152-19	SCREW +P 3X25 TYPE2 NON-SLIT
#10	7-682-149-09	SCREW +P 3X10
#11	7-685-651-79	SCREW +BVTP 3X20 TYPE2 N-S
#12	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S

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